I propose to offer a few practical suggestions, first, upon the general appearances which pus in the urine presents, and upon the means of detecting it: secondly, upon the means we possess of arriving at a knowledge of its source.

Urine which contains pus to any considerable amount, sufficient, for example, to form even a slight deposit, exhibits a certain degree of cloudiness, from the moment when it is passed. This fact will serve to distinguish it from urine containing urate of ammonia, a deposit of which resembles very much a deposit of pus. Urine containing urate of ammonia is generally bright and clear at the moment of micturition, and only becomes turbid on cooling. Purulent urine, after standing some time, throws down a deposit, the supernatant fluid being more or less clear according to circumstances, depending upon the length of time during which it has been left in repose, and upon the amount of pus present.

This deposit varies in its aspect. It may be uniform, of a pale yellowish-white color, of creamy consistence, a little shaggy on the surface, varying in thickness according to the amount, and easily diffused through the urine by slight agitation. This is the most common form of the purulent deposit, and if we submit it to a microscopic examination, we shall find an abundance of pus-corpuscles, with few or no other ingredients. The urine will be found to have an acid re-action.

Or, the deposit being of the same yellowish-white color, and the urine acid, we shall find it mixed with more or less mucus, rendering it slightly tenacious and somewhat slimy, and under the microscope we shall discover the pus-corpuscles adhering together.

Again, the deposit may be of a thick, viscid, ropy consistence, resembling what is termed glairy mucus—the urine being alkaline. This peculiar appearance is brought about by the decomposition of the pus, which acts upon the urine, rendering it alkaline, and this alkaline condition of the urine in turn re-acts upon the deposit, giving it the character just described. The same effect may be artificially produced by the addition of an alkali, liquor potassæ, for example to a purulent deposit. This decomposition of a purulent deposit takes place after it has been suffered to stand for some time. Recent observations have shown, that what has been considered as a deposit of glairy mucus, is but this decomposed pus, "and that mucus never assumes this particular form of a ropy sediment, which sinks to the bottom of the vessel; nor does it ever exist in the urine in such quantity as we frequently find this altered pus."—(Todd.)

I have remarked that purulent urine exhibited a certain degree of cloudiness from the moment of micturition, but this peculiarity, it must be remembered, may be also exhibited under other circumstances. Urine containing an excess of phosphates is not unfrequently cloudy when first passed, and even when clear at the time of micturition, after standing throws down a deposit much resembling one of pus. Yet, on closer examination, it will be found more flocculent and much lighter than pus, and of a whiter color. Phosphatic urine is almost always alkaline. The addition of an acid to phosphatic urine, instead of coagu-